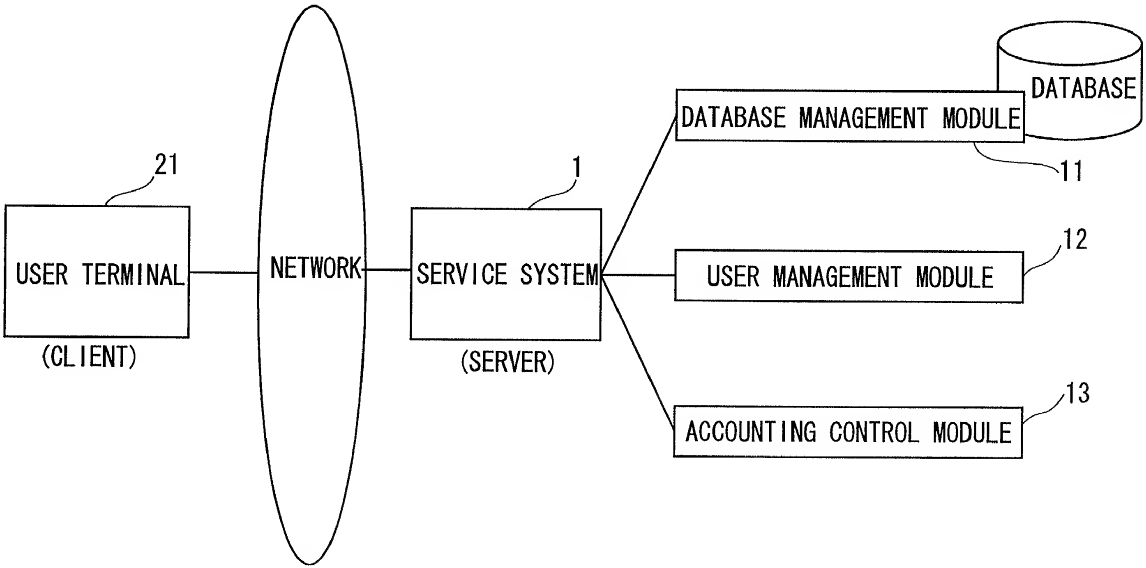
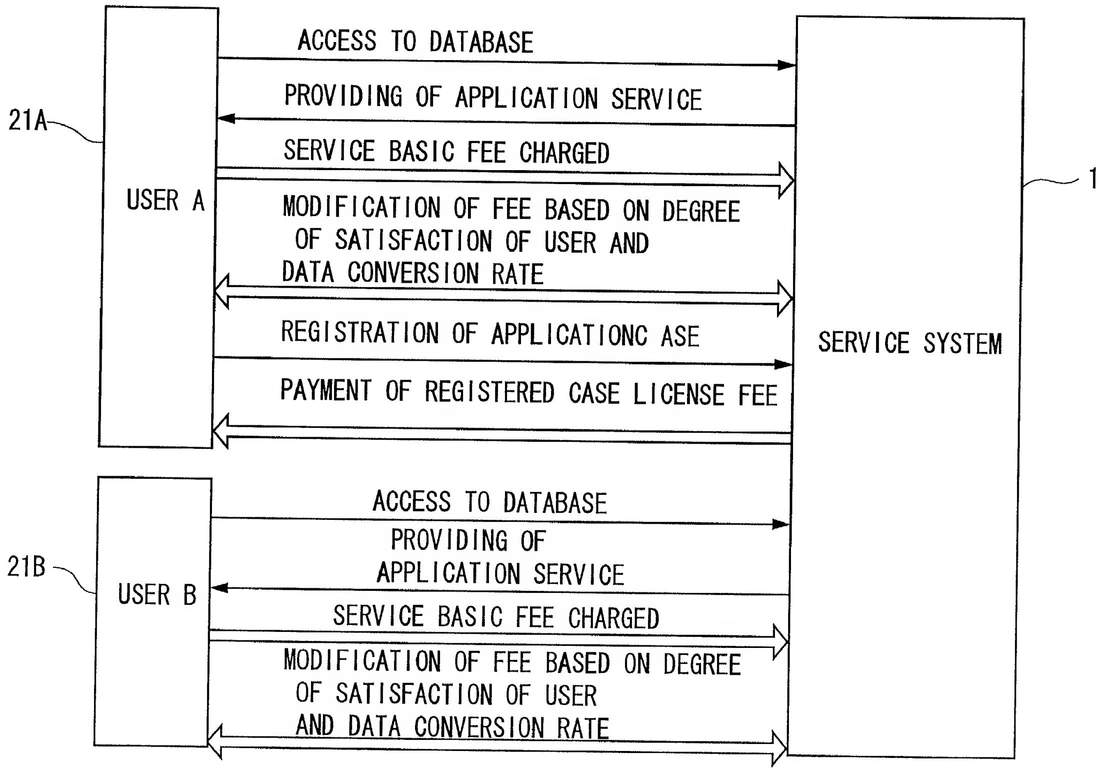
FIG. 1



21
USER TERMINAL
(CLIENT)
NETWORK
1
SERVICE SYSTEM
(SERVER)
DATABASE
DATABASE MANAGEMENT MODULE
11
USER MANAGEMENT MODULE
12
ACCOUNTING CONTROL MODULE
13

FIG. 2



21A
USER A
ACCESS TO DATABASE
PROVIDING OF APPLICATION SERVICE
SERVICE BASIC FEE CHARGED
MODIFICATION OF FEE BASED ON DEGREE OF SATISFACTION OF USER AND DATA CONVERSION RATE
REGISTRATION OF APPLICATIONC ASE
PAYMENT OF REGISTERED CASE LICENSE FEE
SERVICE SYSTEM
1
21B
USER B
ACCESS TO DATABASE
PROVIDING OF APPLICATION SERVICE
SERVICE BASIC FEE CHARGED
MODIFICATION OF FEE BASED ON DEGREE OF SATISFACTION OF USER AND DATA CONVERSION RATE

FIG. 3

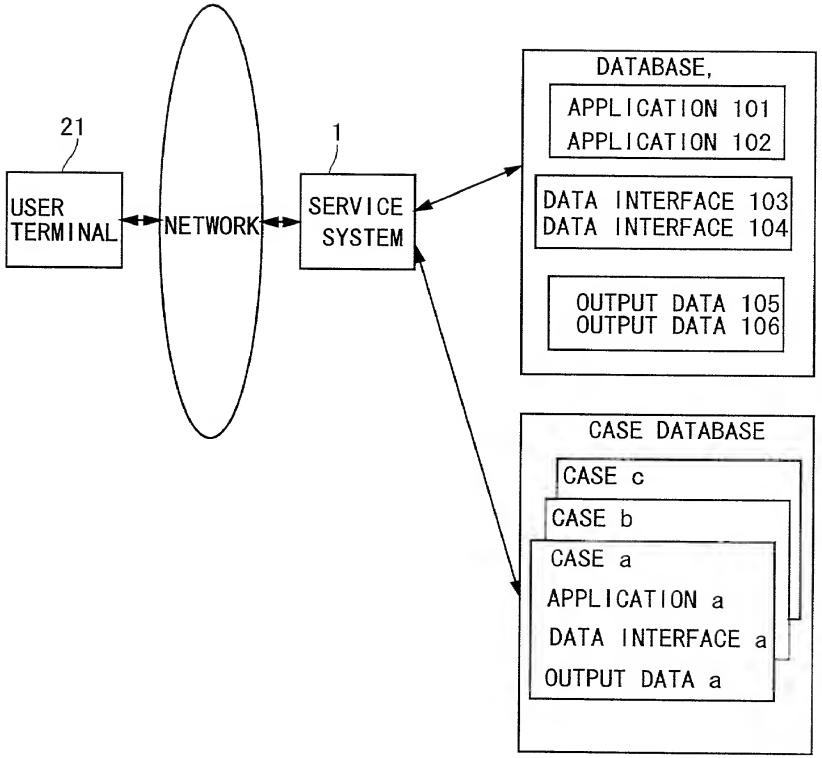

21
USER TERMINAL
NETWORK
1
SERVICE SYSTEM
DATABASE,
APPLICATION 101
APPLICATION 102
DATA INTERFACE 103
DATA INTERFACE 104
OUTPUT DATA 105
OUTPUT DATA 106
CASE DATABASE
CASE c
CASE b
CASE a
APPLICATION a
DATA INTERFACE a
OUTPUT DATA a

FIG. 4

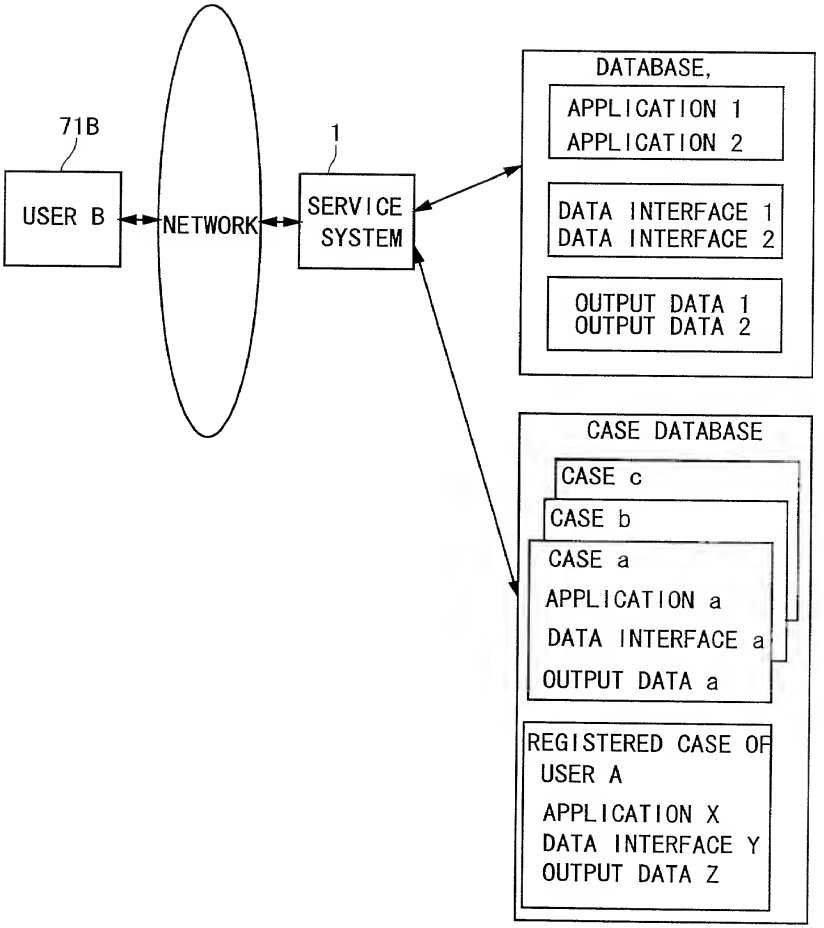

71B
USER B
NETWORK
1
SERVICE SYSTEM
DATABASE,
APPLICATION 1
APPLICATION 2
DATA INTERFACE 1
DATA INTERFACE 2
OUTPUT DATA 1
OUTPUT DATA 2
CASE DATABASE
CASE c
CASE b
CASE a
APPLICATION a
DATA INTERFACE a
OUTPUT DATA a
REGISTERED CASE OF USER A
APPLICATION X
DATA INTERFACE Y
OUTPUT DATA Z

FIG. 5

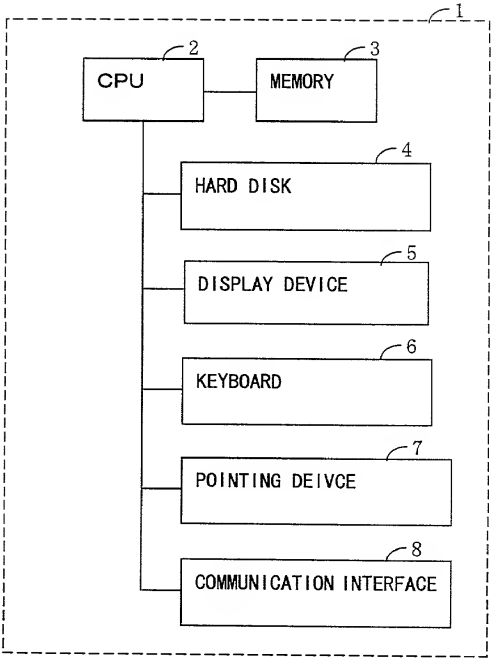

1
2
CPU
3
MEMORY
4
HARD DISK
5
DISPLAY DEVICE
6
KEYBOARD
7
POINTING DEIVCE
8
COMMUNICATION INTERFACE

FIG. 6

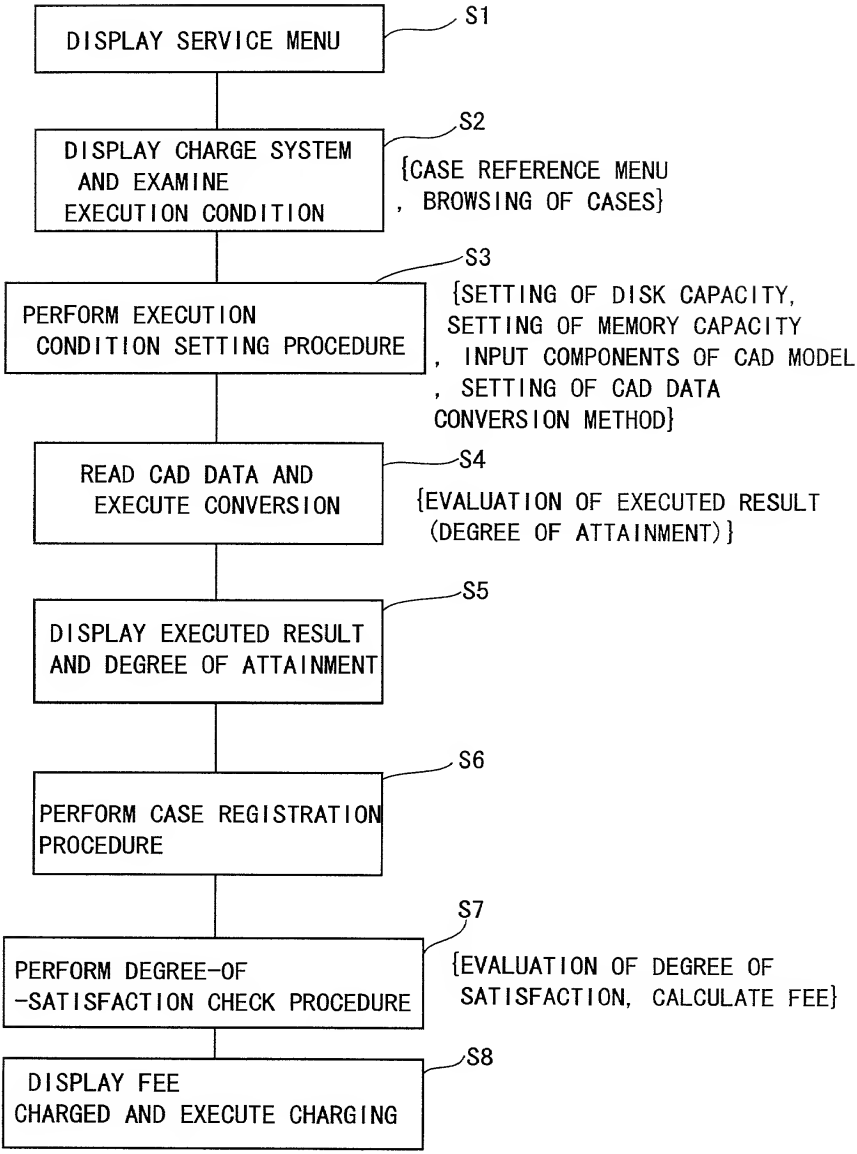

DISPLAY SERVICE MENU
S1
DISPLAY CHARGE SYSTEM AND EXAMINE EXECUTION CONDITION
S2
{CASE REFERENCE MENU , BROWSING OF CASES}
PERFORM EXECUTION CONDITION SETTING PROCEDURE
S3
{SETTING OF DISK CAPACITY, SETTING OF MEMORY CAPACITY , INPUT COMPONENTS OF CAD MODEL , SETTING OF CAD DATA CONVERSION METHOD}
READ CAD DATA AND EXECUTE CONVERSION
S4
{EVALUATION OF EXECUTED RESULT (DEGREE OF ATTAINMENT)}
DISPLAY EXECUTED RESULT AND DEGREE OF ATTAINMENT
S5
PERFORM CASE REGISTRATION PROCEDURE
S6
PERFORM DEGREE-OF-SATISFACTION CHECK PROCEDURE
S7
{EVALUATION OF DEGREE OF SATISFACTION, CALCULATE FEE}
DISPLAY FEE CHARGED AND EXECUTE CHARGING
S8

FIG. 7

THIS APPLICATION SYSTEM DISPLAYS A FEE PER MENU SELECTED BY THE CUSTOMER AND SETS THE FEE ACCOUNTING FOR A RESULT OF THE EFFECTIVE USAGE. SET AN EXECUTION CONDITION AND CLICK THE FOLLOWING TENTATIVE ESTIMATION BUTTON TO DISPLAY AMOUTS OF THE TENTATIVE ESTIMATIONS.

① BASIC FEE OF CAD DATA CONVERSION SERVICE

DISK CAPACITY ○○○GB→¥○○○○ (¥○○○/GB)
MEMORY CAPACITY ○○○MB→¥○○○○ (¥○○○/MB)
COMPUTER CONSUMING TIME (¥○○○/SEC)

② CAD DATA CONVERSION FEE

i. OUTPUT FORMAT AFTER CONVERSION IS IGES
CAD MODEL (NUMBER OF COMPONENTS)
000PIECES→¥0000 (¥○○○/PIECE)
CONVERSION SUCCESS RATE PRESUMED
○○%→CONVERSION FEE MODIFIED
¥0000

ii. OUTPUT FORMAT AFTER CONVERSION IS STEP
CAD MODEL (NUMBER OF COMPONENTS)
000PIECES→¥0000 (¥000/PIECE)
CONVERSION SUCCESS RATE PRESUMED
○○%→CONVERSION FEE MODIFIED
¥0000

③ CASE DATABASE FEE
BROWSING OF CASE DATABASE (¥○○○/CASE)
REGISRATION IN CASE DATABASE DISCOUNT¥○○○/CASE
ACHIEVEMENT BROWSED BY OTHER USERS DISCOUNT¥○○○/CASE

④ CHECK OF DEGREE OF SATISFACTION,
DEGREE-OF-SATISFACTION BASED FEE (RANK A, B, C)
RANK A ¥○○○

[TENTATIVE ESTIMATION] ¥○○○○○

FIG. 8

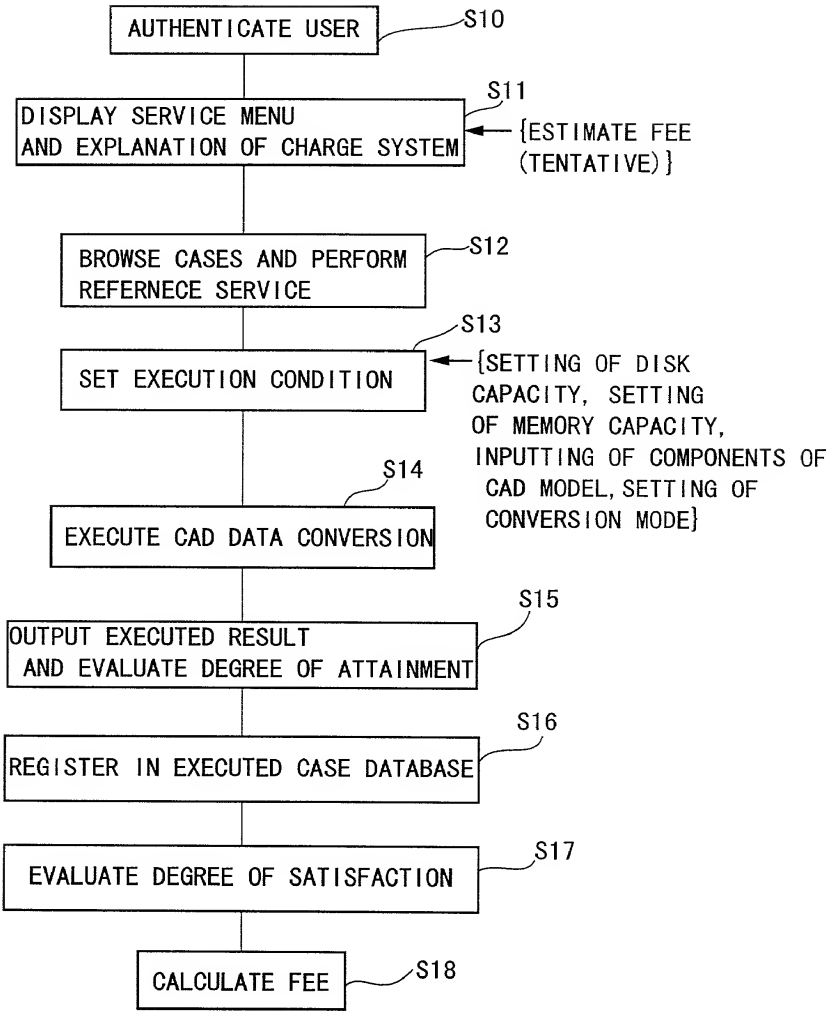

AUTHENTICATE USER
S10
DISPLAY SERVICE MENU AND EXPLANATION OF CHARGE SYSTEM
S11
{ESTIMATE FEE (TENTATIVE)}
BROWSE CASES AND PERFORM REFERNECE SERVICE
S12
SET EXECUTION CONDITION
S13
{SETTING OF DISK CAPACITY, SETTING OF MEMORY CAPACITY, INPUTTING OF COMPONENTS OF CAD MODEL, SETTING OF CONVERSION MODE}
EXECUTE CAD DATA CONVERSION
S14
OUTPUT EXECUTED RESULT AND EVALUATE DEGREE OF ATTAINMENT
S15
REGISTER IN EXECUTED CASE DATABASE
S16
EVALUATE DEGREE OF SATISFACTION
S17
CALCULATE FEE
S18

FIG. 9

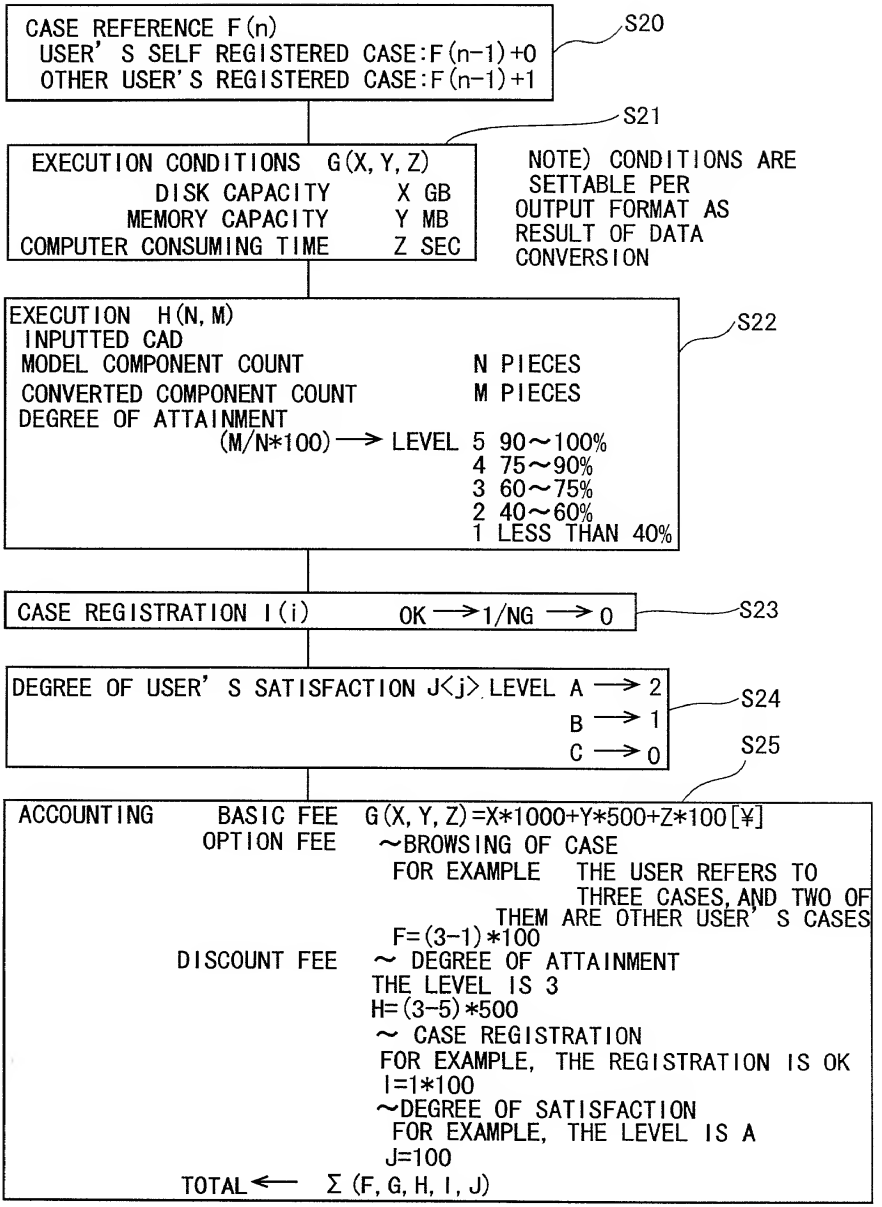

CASE REFERENCE F(n)
USER'S SELF REGISTERED CASE:F(n-1)+0
OTHER USER'S REGISTERED CASE:F(n-1)+1
S20
S21
EXECUTION CONDITIONS G(X, Y, Z)
DISK CAPACITY X GB
MEMORY CAPACITY Y MB
COMPUTER CONSUMING TIME Z SEC
NOTE) CONDITIONS ARE SETTABLE PER OUTPUT FORMAT AS RESULT OF DATA CONVERSION
EXECUTION H(N, M)
INPUTTED CAD
MODEL COMPONENT COUNT N PIECES
CONVERTED COMPONENT COUNT M PIECES
DEGREE OF ATTAINMENT
(M/N*100) → LEVEL 5 90～100%
4 75～90%
3 60～75%
2 40～60%
1 LESS THAN 40%
S22
CASE REGISTRATION I(i) OK → 1/NG → 0
S23
DEGREE OF USER'S SATISFACTION J<j> LEVEL A → 2
B → 1
C → 0
S24
S25
ACCOUNTING BASIC FEE G(X, Y, Z)=X*1000+Y*500+Z*100[¥]
OPTION FEE ～BROWSING OF CASE
FOR EXAMPLE THE USER REFERS TO THREE CASES, AND TWO OF THEM ARE OTHER USER'S CASES
F=(3-1)*100
DISCOUNT FEE ～ DEGREE OF ATTAINMENT
THE LEVEL IS 3
H=(3-5)*500
～ CASE REGISTRATION
FOR EXAMPLE, THE REGISTRATION IS OK
I=1*100
～DEGREE OF SATISFACTION
FOR EXAMPLE, THE LEVEL IS A
J=100
TOTAL ← Σ(F, G, H, I, J)

FIG. 10

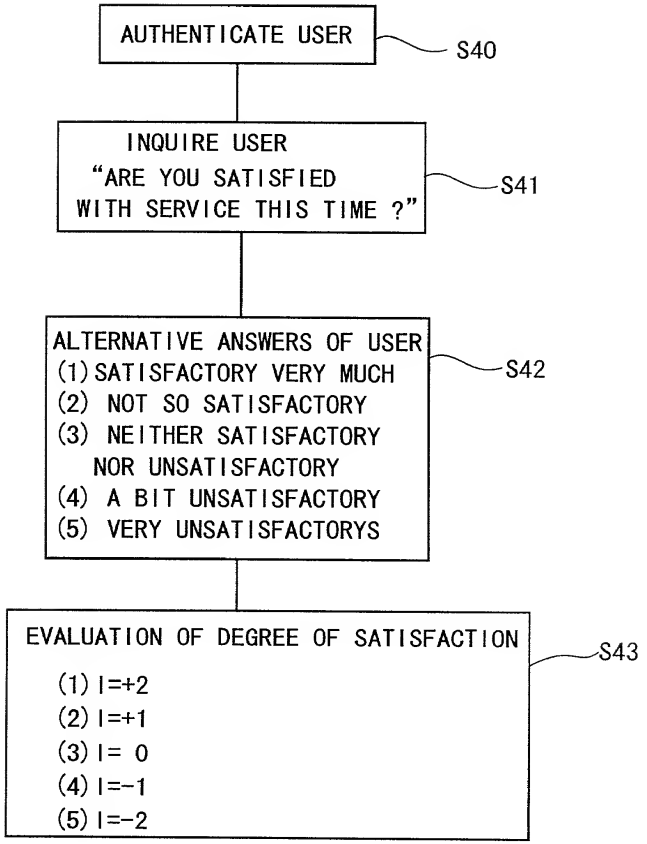

AUTHENTICATE USER
S40
INQUIRE USER
"ARE YOU SATISFIED
WITH SERVICE THIS TIME ?"
S41
ALTERNATIVE ANSWERS OF USER
(1) SATISFACTORY VERY MUCH
(2) NOT SO SATISFACTORY
(3) NEITHER SATISFACTORY
NOR UNSATISFACTORY
(4) A BIT UNSATISFACTORY
(5) VERY UNSATISFACTORYS
S42
EVALUATION OF DEGREE OF SATISFACTION
(1) I=+2
(2) I=+1
(3) I= 0
(4) I=-1
(5) I=-2
S43

FIG. 11

USER AUTHENTICATION CODE ○○○○○○

EXECUTION CASE S/N ○○○

ADMINISTRATIVE PARAMETERS OF EXECUTION

DISK CAPACITY XGB
MEMORY CAPACIT YMB

EXECUTION CONDITION PARAMETERS

INPUTTED CAD MODEL COMPONENT COUNT N PIECES

TRIANGLE 3 PIECES

QUADRANGLE 4 PIECES

PENTAGON 5 PIECES

HEXAGON 6 PIECES

CATEGORY OF OUTPUT FORMAT
IGES FORMAT

EXECUTED RESULT

CALCULATION TIME ○○ SEC

DEGREE OF ATTAINMENT ○○% LEVEL ○

DATA CONVERSION SUCCESSFUL COMPONENT COUNT M PIECES

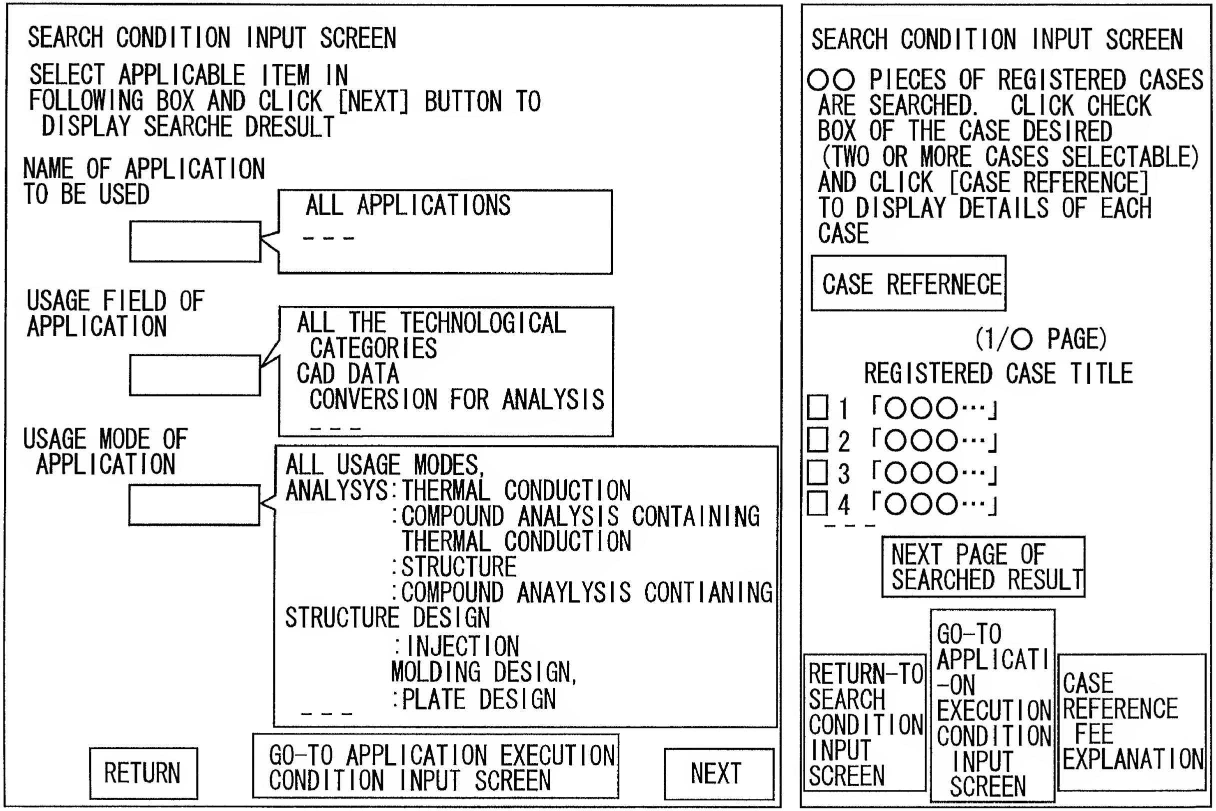
TRIANGLE 3 PIECES

QUADRANGLE 4 PIECES

PENTAGON 0 PIECES

HEXAGON 6 PIECES

FIG. 12



SEARCH CONDITION INPUT SCREEN
SELECT APPLICABLE ITEM IN FOLLOWING BOX AND CLICK [NEXT] BUTTON TO DISPLAY SEARCHE DRESULT
NAME OF APPLICATION TO BE USED
ALL APPLICATIONS
- - -
USAGE FIELD OF APPLICATION
ALL THE TECHNOLOGICAL CATEGORIES
CAD DATA CONVERSION FOR ANALYSIS
- - -
USAGE MODE OF APPLICATION
ALL USAGE MODES,
ANALYSYS: THERMAL CONDUCTION
: COMPOUND ANALYSIS CONTAINING THERMAL CONDUCTION
: STRUCTURE
: COMPOUND ANAYLYSIS CONTIANING
STRUCTURE DESIGN
: INJECTION MOLDING DESIGN,
: PLATE DESIGN
- - -
RETURN
GO-TO APPLICATION EXECUTION CONDITION INPUT SCREEN
NEXT
SEARCH CONDITION INPUT SCREEN
○○ PIECES OF REGISTERED CASES ARE SEARCHED. CLICK CHECK BOX OF THE CASE DESIRED (TWO OR MORE CASES SELECTABLE) AND CLICK [CASE REFERENCE] TO DISPLAY DETAILS OF EACH CASE
CASE REFERNECE
(1/○ PAGE)
REGISTERED CASE TITLE
☐ 1 「○○○…」
☐ 2 「○○○…」
☐ 3 「○○○…」
☐ 4 「○○○…」
- - -
NEXT PAGE OF SEARCHED RESULT
RETURN-TO SEARCH CONDITION INPUT SCREEN
GO-TO APPLICATI-ON EXECUTION CONDITION INPUT SCREEN
CASE REFERENCE FEE EXPLANATION

FIG. 13

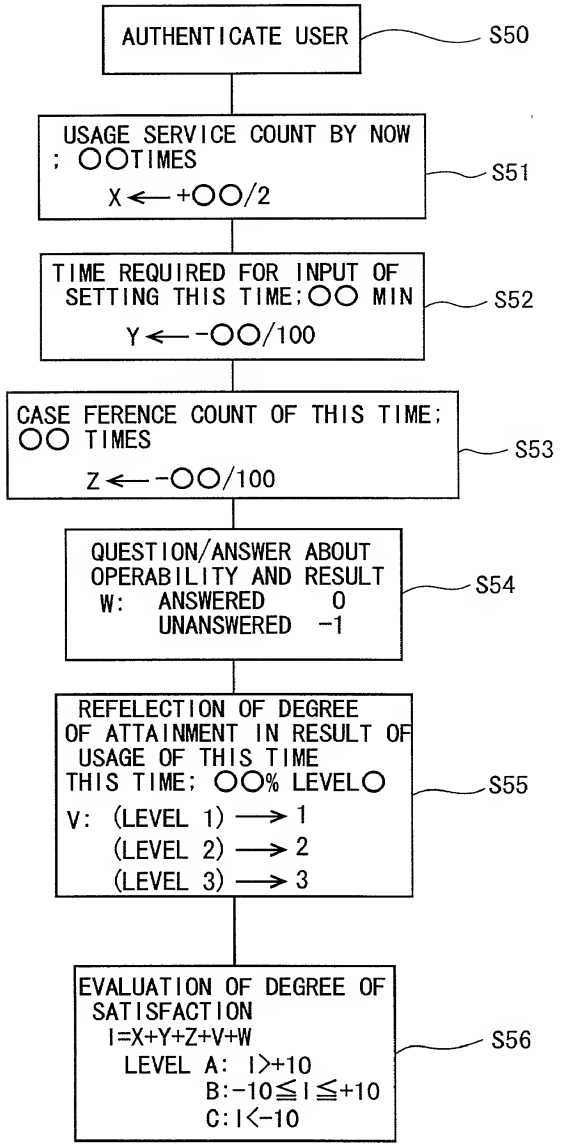

AUTHENTICATE USER
S50
USAGE SERVICE COUNT BY NOW ; ○○TIMES
X ← +○○/2
S51
TIME REQUIRED FOR INPUT OF SETTING THIS TIME; ○○ MIN
Y ← -○○/100
S52
CASE FERENCE COUNT OF THIS TIME; ○○ TIMES
Z ← -○○/100
S53
QUESTION/ANSWER ABOUT OPERABILITY AND RESULT
W: ANSWERED 0
UNANSWERED -1
S54
REFELECTION OF DEGREE OF ATTAINMENT IN RESULT OF USAGE OF THIS TIME
THIS TIME; ○○% LEVEL○
V: (LEVEL 1) → 1
(LEVEL 2) → 2
(LEVEL 3) → 3
S55
EVALUATION OF DEGREE OF SATISFACTION
I=X+Y+Z+V+W
LEVEL A: I>+10
B: -10≦I≦+10
C: I<-10
S56

FIG. 14

```
$CIRCLE
! SELECT CENTER OF CIRCLE
$SIZE
? type of size
 4
$MODIFY
0.655197 0.498244 L 0 0.949333333
? select view 0
 1.327015 0.000000 0.000000 0.000000 1.327015 0.000000
 0.000000  0.000000  1.327015  500.000000  421.875000  −2338.268590  1.000000
0.000000
? select 2 dimension
2 4 2 4 2 0 −1 0 −1
! INPUT NEW VALUE
10
$REDRAW
! CIRCLE EDIT IS SUCCESSFUL
```